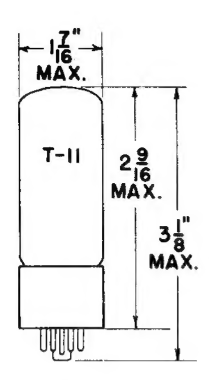
TUNG-SOL

PENTODE

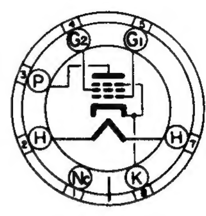
COATED UNIPOTENTIAL CATHODE

HEATER
26.5 VOLTS 0.30AMP.
AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW
SHORT INTERMEDIATE SHELL 8 PIN OCTAL LOW LOSS PHENOLIC

7S

THE 26E6WG IS A RUGGEDIZED, SINGLE-ENDED BEAM PENTODE USED IN AF POWER OUTPUT APPLICATIONS REQUIRING APPROXIMATELY FIVE WATTS. THE HEATER DESIGN MAKES THIS TYPE IDEAL FOR OPERATION IN AIRBORNE EQUIPMENT WHERE A 26 VOLT POWER SUPPLY IS NORMALLY AVAILABLE. ALSO THE RUGGEDIZED STRUCTURE IS CAPABLE OF WITHSTANDING SEVER SHOCK AND VIBRATION SUCH AS THAT ENCOUNTERED IN AIRCRAFT.

RATINGS
ABSOLUTE MAXIMUM VALUES

HEATER VOLTAGE	26.5±15%	VOLTS
MAXIMUM DC PLATE VOLTAGE	220	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	150	VOLTS
MAXIMUM PLATE DISSIPATION	12.5	WATTS
MAXIMUM GRID #2 DISSIPATION	1.75	WATT
MAXIMUM HEATER CATHODE VOLTAGE	±300	VOLTS
MAXIMUM ALTITUDE	10 000	FEET

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A_1 AMPLIFIER

HEATER VOLTAGE	26.5	VOLTS
HEATER CURRENT	0.3	AMP.
DC PLATE VOLTAGE	200	VOLTS
DC GRID #1 VOLTAGE	-14	VOLTS
DC GRID #2 VOLTAGE	135	VOLTS
PEAK AF SIGNAL VOLTAGE	14	VOLTS
ZERO SIGNAL PLATE CURRENT	61	Ma
ZERO SIGNAL GRID #2 CURRENT	3.0	Ma
MAXIMUM SIGNAL PLATE CURRENT	56	MA
MAXIMUM SIGNAL GRID #2 CURRENT	9	mA

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS - CONT'D.

CLASS A_1 AMPLIFIER

PLATE RESISTANCE	18 000	OHMS
TRANSCONDUCTANCE	7 100	μMHOS
EXTERNAL PLATE LOAD RESISTANCE	2 600	OHMS
TOTAL HARMONIC DISTORTION	10	PERCENT
POWER OUTPUT	6	WATTS

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

E_f = 26.5V, E_b = 200Vdc, E_{c2} = 135Vdc, E_{c1} = −14Vdc
EXCEPT AS MODIFIED BELOW

	INITIAL				500 HOUR LIFE TEST		
	INDIVIDUAL MIN.	INDIVIDUAL MAX.	PROD. MIN.	AVG. MAX.	INDIVIDUAL MIN.	INDIVIDUAL MAX.	
HEATER CURRENT	275	325	---	---	---	---	mA
HEATER–CATHODE LEAKAGE	0	75	---	---	---	---	μAdc
TOTAL GRID CURRENT	0	−3	---	---	---	---	μAdc
PLATE CURRENT (1)	43	79	---	---	---[A]	---	mAdc
POWER OUTPUT[B]	4.8	---	---	---	2.9	---	WATTS
PLATE CURRENT (2) (E_{c1} = 45 Vdc)	0	1	---	---	---	---	mAdc
SCREEN GRID CURRENT	0	6	---	---	---	---	mAdc
TRANSCONDUCTANCE	5800	8400	---	---	---	---	μMHOS
GRID EMISSION (E_b=E_{c1}=E_{c2}=30Vdc)	180	---	---	---	---	---	mAdc

SPECIAL REQUIREMENTS

	MIN.	MAX.	
VARIABLE FREQUENCY VIBRATION[C] (R_p=2000, E_{c1}=−22Vdc)	---	750	mVac
LOW FREQUENCY VIBRATION[D] (R_p=2000, E_{c1}=−22 dc)	---	350	mVac
SHOCK[E] (HAMMER ANGLE =48°)	---	---	
VIBRATIONAL FATIGUE[F]			
POST SHOCK AND FATIGUE END POINTS			
LOW FREQUENCY VIBRATION	---	500	mVac
HEATER–CATHODE LEAKAGE	0	100	μAdc
PLATE CURRENT (2)	0	2	mAdc
POWER OUTPUT	4.15	---	WATTS
MECHANICAL RESONANCE[G]	---	---	
AF NOISE[H] (E_{sig}=200 mVac, R_p=2000)	---	17	VU
HEATER CYCLING LIFE TEST (E_f=32Vac, E_b=E_{c2}=E_{c1}=0)	---	---	

NOTES

[A] DURING THE FIRST 100 HOURS OF LIFE, PLATE CURRENT (1) SHALL NOT CHANGE BY MORE THAN 15% FROM ITS INITIAL VALUE.

[B] E_{sig}=9.9 Vac, R_p= 2600

[C] SEE MIL-E-1C 4.9.20.3

[D] SEE MIL-E-1C 4.9.20.4

[E] SEE MIL-E-1C 4.9.20.5

[F] SEE MIL-E-1C 4.9.20.6

[G] THE MOUNT SHALL EXHIBIT NO PRONOUNCED MECHANICAL RESONANCE BELOW 100 CPS.

[H] SEE MIL-E-1C 4.10.3.2